

General Information

1993
Satellite Receiver
Also Covers
Pace PSR 910/914
Philips STU 804
Manhattan SR 95
Apollo SR 1900
Televes RST 200

General Information

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Matrix

Item

See Model

Polariser

Pace MRD 950/955

Specifications

GENERAL

Number of prgrammes (single input receiver) Number of programmes (dual input receiver)

120 199

Front panel indicators

3-character, 7-segment display for standby, timer and programme/ Channel No.

Front Panel Control Buttons

Standby, Programme Up, Programme Down CCIR System G, Ch.21 to 69, preset to Ch. 38

Operating Voltage Power Consumption Dimensions

. 198-264 V AC 50Hz 35 W(max) H = 66mmW = 360 mm. D= 210mm

Weight

UHF Modulator

2.5kg (typical, when packed)

CONNECTORS

VCR **DECODER** **SCART** (RGB and CVBS) SCART (CVBS) SCART (Baseband Output, Audio/Video Input/Output,

AUDIO OUT MAINS INPUT **AERIAL**

RGB in) Phono (L and R) 2-pin reversible IEC female IEC male Single or dual F-type

LNB

Receiving Frequency Range 950 - 2050 MHz

polarity switching

Vertical 13.0 V (0.5 V), Horizontal 17.5 V (0.5V) (250 mÀ load) 75 Ohms 479.5 MHz

Input Impedance I.F. Bandwidth

27 MHz (dual band, 27 MHz & 18 MHz option available)

Input Level Image rejection Static Threshold

-60 dBm to -30 dBm 40 dB (typically) 6 dB (typically) Energy Dispersion Removal 35 dB (min.)

SCART SOCKETS

Video Output Level Video Output Impedance Video Frequency Range

1V p-p (2 dB) 75 Ohms 25 Hz - 4.8MHz (1.5 dB) to CCIR 405.1

Video De-emphasis (PAL) Baseband Output Level Baseband Frequency Range

(625 lines) 1 V p-p (2 dB) 25 Hz-10.5MHz

Baseband De-emphasis

(1.5 dB)PAL/MÁC, software

Audio Frequency Range Audio Output Level

selectable **30 Hz -** 15 kHz 500 mV rms into 600 Ohms

OPERATING/STORAGE CONDITIONS

Operating Temperature

Range

Operating Humidity

Range

5 - 40°C

20 - 80% noncondensing at 25°C -20 - +50°C

Storage Temperature Range Storage Humidity Range

10 - 90% noncondensing at 25° C

AUDIO SPECIFICATION

Audio Bandwidth

Tuning Frequency Range

Preset Stereo Subcarriers

(FSS,DBS & T-COM) Stereo A 7.02 & 7.20 MHz (PANDA 1) Stereo B 7.38 & 7.56 MHz (PANDA 1) Stereo C 7.74 & 7.92 MHz (PANDA 1)

Stereo D 8.10 & 8.28 MHz (PANDA 1) Preset Mono Subcarriers

(FSS, DBS & T-COM) Mono 1 6.50 MHz (50) Mono 2 7.02 MHz (PÁNDA 1) Mono 3 7.20 MHz (PANDA 1)

Mono 4 7.38 MHz (PANDA 1) Mono 5 7.56 MHz (PANDA 1) Mono 6 7.74 MHz (PANDA 1) Mono 7 7.92 MHz (PANDA 1)

Mono 8 8.10 MHz (PANDA 1) Mono 9 8.28 MHz (PANDA 1) 280 kHz wide band

(mono de-emphasis PANDA 1, J17 or 50 s) 5.00-9.00 MHz in 10 KHz steps

Preset Stereo Subcarriers

(C-BAND)

Stereo A 5.58 & 5.76 MHz (PANDA 1)

Stereo B 5.94 & 6.12 MHz (PANDA 1) Stereo C 6.30 & 6.48 MHz (PANDA 1)

Stereo D 6.66 & 6.84 MHz (PANDA 1)

Preset Mono Subcarriers

(C-BAND)

Mono 1 6.60 MHz (50 s) Mono 2 6.65 MHz (50uS)

Mono 3 6.80 MHz (50uS)

Mono 4 5.94 MHz (PANDA 1) Mono 5 6.12 MHz (PANDA 1)

Mono 6 6.30 MHz (PANDA 1) Mono 7 6.48 MHz (PANDA 1)

Mono 8 6.66 MHz (PANDA 1)

Mono 9 6.84 MHz (PANDA 1)

LATE CHANGES

Replacment of the U2 Extension PCB by U2

As of 21.11.92, ECOs 0000344, S000029 and S000036 should come into effect. These detail the substitution of the U2 extension PCB by the dedicated microprocessor U2 (8661 Proc PSR Ser - Part no. 809-8661003). At the same time, crystal X1 will need to move back onto the main PCB, and the following capacitors re-fitted:

*C32 (SMD 33 pF 50V 5% Cer Cog Cap - Part no. 950-3305501); *C33 (SMD 22 pF 50V 5% Cer Cog Cap - Part no. 950-2205501).

On single input receivers, the IC U6 will need to change to Cat 24C08 8k-Bit serial EPROM - Part no. 104-0240802.

In addition, the U4 extension PCB will need to be fitted.

Note that the U2 extension PCB is described in the manual and its parts list (because this is model - specific) is given inside this rear cover.

Later still, the IC U2 will change to the following: 8661 Proc PSR Ser Part no. 809-8661007. Once this version of U2 is fitted, the U4 extension PCB will no longer be required and U4 will once again be mounted directly onto the main PCB.

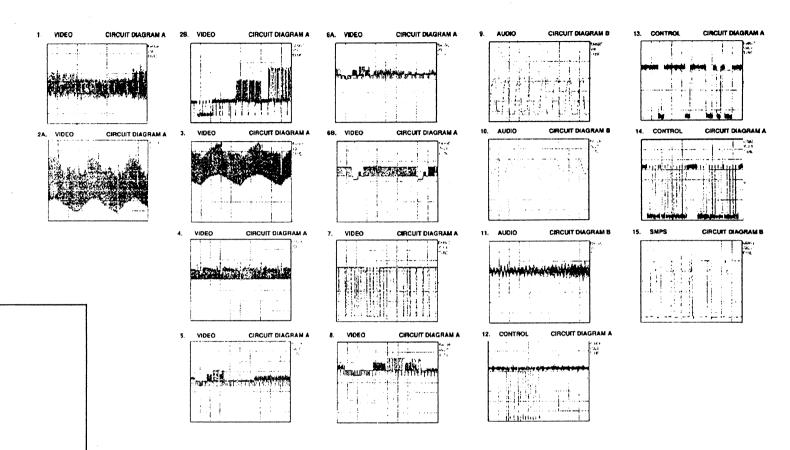
OTHER CHANGES

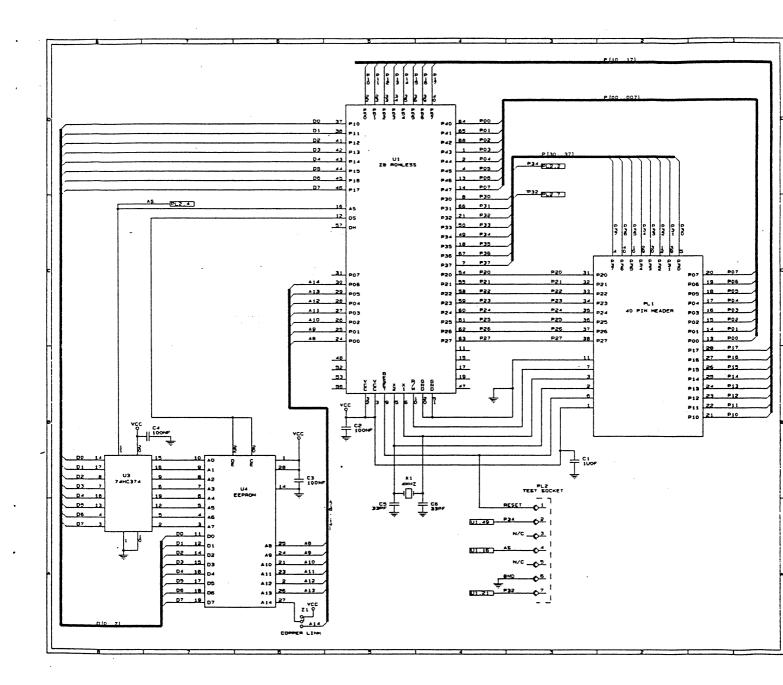
* As of 13.11.92, C10 will become an SMD 47 nF 50 V 10% Cer X7R Cap 0805 - Part no. 950-4735621 because of supply difficulties with the original part (PCO S000005).

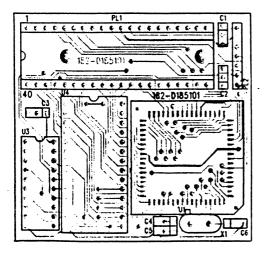
As of 10.11.92, video processing IC U9 will change from Version 2FS to Version 2 (Part no. 109-0960102) as detailed in ECO 000397.

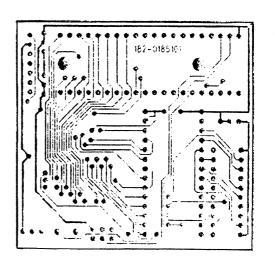
As of 6.11.92, adjustable coils L15, L16 and L27 will become 10.7 MHz 3% Adj coil type FH-7 Part no. 133-2868704; as thes include a capacitor, C304, C305 and C306 will no longer be fitted (PCO S000001).

Waveforms









IRCUIT DIAGRAM A - TUNER, VIDEO PROCESSING, CONTROL AND UHF MODULATOR CIRCUITRY

